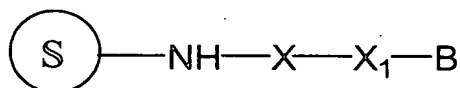
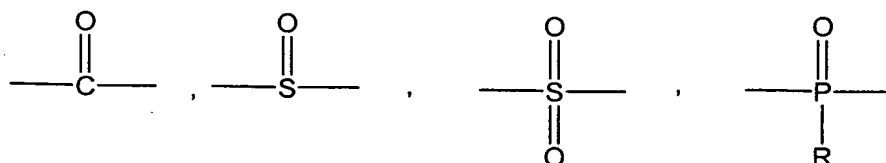


ABSTRACT

This invention provides a system for immobilizing biological molecules onto a solid support having an available amino group that uses two steps. In a first step, a nucleophilic substitution reaction occurs so that the available amino group displaces a first leaving group of an activating compound to form an activated support. In a second step, the activated support reacts with biological molecules resulting in a composition of the formula:



wherein S is a solid support, preferably X is selected from the group consisting of



wherein R is selected from the group consisting of alkyl, aryl, and OR^1 having no greater than about 18 carbon atoms,
wherein R^1 is selected from the group consisting of alkyl and aryl having no greater than about 18 carbon atoms,
wherein X_1 is selected from the group consisting of NH, oxygen, and sulfur, and
wherein B is a biological molecule.